

			AWARD/ MODIFICATION			3a. ISSUED BY: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUNICY STREET ARLINGTON, VA 22217-5660					
			1. INSTRUMENT TYPE: GRANT			3b. CFDA: 12.300					
			2. AUTHORITY: 10 USC 2358, 31 USC 6304			3c. DUNS NUMBER: 008963233					
4. AWARD NO.: N00014-00-1-5555			5. MODIFICATION NO.:		6. MODIFICATION TYPE:		7. PR NO.: 00PR07777-00		PAGE 1 of		
8. ACTIVITY/AGENCY PROPOSAL NO.: 99999--9999			9. RECIPIENT PROPOSAL NO.: ANY CHARACTERS		10. PROPOSAL DATE: 01 JUL 1999		11. ACTIVITY TYPE: RESEARCH		12. PROGRAM TYPE: SPECIAL PROGRAM		
13. ISSUED TO 13a. ADDRESS:		13b. CAGE: 9G999		13c. ED/EFT NUMBER:		14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13):					
OFFICIAL NAME OF INSTITUTION OFFICIAL STREET ADDRESS ANY CITY, STATE, COUNTRY POSTAL CODE											
13d. BUSINESS OFFICE CONTACT: NAME OF THE INDIVIDUAL											
13e. TELEPHONE NUMBER: OF THE BUSINESS OFFICE CONTACT		13f. EMAIL ADDRESS: OF THE BUSINESS OFFICE CONTACT									
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: THE INSTITUTION'S PROPOSAL TITLE											
16. FUNDING				ACTIVITY/AGENCY SHARE		RECIPENT SHARE		TOTAL		17. CURRENT FUNDING PERIOD N/A THROUGH N/A	
PREVIOUSLY OBLIGATED:				0.00		0.00		0.00		18. PERIOD OF PERFORMANCE 01 OCT 1999 THROUGH 30 SEP 2001	
OBLIGATED BY THIS ACTION:				75,000.00		0.00		75,000.00			
TOTAL OBLIGATED ON AWARD:				75,000.00		0.00		75,000.00			
FUTURE FUNDING:				25,000.00		0.00		25,000.00			
GRANT TOTAL:				100,000.00		0.00		100,000.00			
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet(s)											
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL MANAGER: All names listed of Principal Investigators and Co-Principal Investigators					21. TECHNICAL REPRESENTATIVE 21a. NAME: Government Program Officer's Name			21b. CODE: Program Officer's ONR Code: 331			
					21c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUNICY STREET ARLINGTON, VA 22217-5660						
20b. TELEPHONE NUMBER: PI's Phone Number		20c. EMAIL ADDRESS: PI's e-mail address			21d. TELEPHONE NUMBER: PO's Phone Number			21e. EMAIL ADDRESS: PO's e-mail address			
22. AWARDDING OFFICE CONTACT 22a. NAME: Grant Specialist's Name			22b. CODE: Specialist's Code		23a. ADMINISTRATIVE OFFICE:			23b. AGO CODE: UIC FOR THE AGO: N66018			
22c. ADDRESS: OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE 800 NORTH QUNICY STREET ARLINGTON, VA 22217-5660					OFFICE OF NAVAL RESEARCH REGIONAL OFFICE FAX NUMBER OF THE APPROPRIATE REGIONAL OFFICE COMPLETE ADDRESS						
22d. TELEPHONE NUMBER: Specialist's Phone Number		22e. EMAIL ADDRESS: Specialist's e-mail address									
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a.			25a. PAYING OFFICE: DFAS CHARLESTON, SC		25b. CODE: N68892		26a. PATENT OFFICE:		26b. CODE: ONR 00CC		
							OFFICE OF NAVAL RESEARCH BALLSTON CENTRE TOWER ONE ATTN ONR 00CC 800 NORTH QUNICY STREET ARLINGTON, VA 22217-5660				

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27. SPECIAL INSTRUCTIONS: SEE ATTACHMENT 1 - IF "SEE ATTACHMENT 1" IS ENTERED HERE, THERE WILL BE SPECIAL CLAUSES, INFORMATION OR TERMS ENTERED ON THE ATTACHMENT TO THIS AWARD DOCUMENT.							
28. DELEGATIONS: The grant administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available, or they can be found at the following URL: http://www.onr.navy.mil/02/024/offices.htm							
FULL DELEGATION							
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding point of contact named in block 22 will make their full text available, or they can be found at the specified URL.							
DOCUMENT		URL				CLAUSES	
UBB8	ONR DOMESTIC RESEARCH TERMS AND CONDITIONS	http://www.onr.navy.mil/02/850test/				ALL	
	AUG 1999	snad.ncsl.nist.gov/fededi					
UAWA	Award A	snad.ncsl.nist.gov/fededi					
UAAC	Acceptance C						
30. OPTIONS							
	OPTION NO.	AMOUNT	PERIOD				
(1)	1	200,000.00	01 OCT 2001 through 30 SEP 2002				
(2)	2	300,000.00	01 OCT 2002 through 30 SEP 2003				
(3)							
(4)							
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF-298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF-298 as follows: "Approved for Public Release; distribution is Unlimited".							
ADDRESSEE		REPORT TYPE				COPIES	
See Block #21		Performance/Technical Report (Annually) w/(SF-298's)				1	
		Final Technical Report w/(SF-298's)				1	
See Block #23a		Performance/Technical Report (Annually) w/(SF-298's)**				1	
		Final Financial Status Report (SF269)					
		Final Technical Report w/(SF-298's)**					
		Report of Inventions and Subcontracts (DD 882)				1	
		**Transmittal letter only				1	
See Block #26a		Report of Inventions and Subcontracts (DD 882)				1	
DEFENSE TECHNICAL INFORMATION CENTER 8725 JOHN J KINGMAN ROAD STE 0944 FORT BELVOIR, VA 22060-6218		Final Technical Report w/(SF-298's)				1	
NAVAL RESEARCH LABORATORY ATTN CODE 5220 4555 OVERLOOK AVENUE SW WASHINGTON, DC 20375-5320		Performance/Technical Report (Annually) w/(SF-298'S) Final Technical Report w/(SF-298'S)				1 1	
32. FOR THE RECIPIENT				33. FOR THE UNITED STATES OF AMERICA			
SIGNATURE OF PERSON AUTHORIZED TO SIGN N/A - SIGNATURE IS NOT REQUIRED ON THIS AWARD				SIGNATURE OF AWARDING OFFICER			
NAME AND TITLE OF SIGNER		DATE SIGNED		NAME AND TITLE OF AWARD OFFICER		DATE SIGNED	

A continuation sheet will be added if any data is entered for Block # 27 - Special Instructions.

Also, the appropriate Financial Accounting Data (FAD) sheets will be added for Navy and Non-Navy Funding.